

## CHRONICALLY-IMPLANTED DEVICE FOR SENSING AND THERAPY

### Abstract of the Disclosure

- 5        Systems, devices and methods are provided for providing sensing and  
therapy functions using a chronically-implanted device. According to one  
embodiment, the device includes a structure adapted to be chronically placed within  
a biosystem, and further includes sensing circuitry and therapy-providing circuitry  
attached to the structure. The sensing circuitry is adapted to sense mechanical  
10   parameters in the biosystem. The therapy-providing circuitry is adapted to provide  
therapy to the biosystem. According to various embodiments of the device, the  
sensing circuitry is further adapted to sense electrical and/or chemical parameters in  
the biosystem, and/or is adapted to provide electrical therapy and/or to provide drug-  
eluting therapy. One embodiment of the device includes a stent-like structure  
15   adapted to be chronically placed intravascularly in the biosystem.

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